

## Regional HIV/AIDS Epidemiologic Profile of Worcester, Massachusetts: FY 2008

**Table 1. Total number of people reported with HIV infection or AIDS<sup>1</sup> by mortality status on December 31, 2007 Worcester, Massachusetts**

	<b>N</b>	<b>%</b>
People Living with HIV/AIDS	919	61%
People Reported with HIV or AIDS who are Deceased	589	39%
Total Number of People Reported with HIV Infection or AIDS	<b>1,508</b>	<b>100%</b>

<sup>1</sup> Does not include individuals diagnosed with HIV infection (non-AIDS) who died prior to January 1, 1999 or who were not in care on January 1, 1999.

Data Source: MDPH HIV/AIDS Surveillance Program, Data as of 1/1/08

**Table 2. Average annual rate of HIV infection diagnosis from 2004 to 2006 and rate of people living with HIV/AIDS on 12/31/07<sup>1</sup>: Worcester, Massachusetts**

<b>Average annual HIV diagnosis rate from 2004–2006</b>	<b>Average Rate per 100,000</b>	<b>Average Number of HIV Diagnoses</b>
Worcester, MA	25 per 100,000	44
Massachusetts Total	13 per 100,000	857
<b>Rate of people living with HIV/AIDS on 12/31/07</b>	<b>Rate per 100,000</b>	<b>Number of People Living with HIV/AIDS</b>
Worcester, MA	533 per 100,000	920
Massachusetts Total	267 per 100,000	16,977

<sup>1</sup> Population sizes for rate calculations are based on year 2000 population estimates from the MDPH Center for Health Information, Statistics, Research and Evaluation

Data Source: MDPH HIV/AIDS Surveillance Program, Data as of 1/1/08

**Table 3. People living with HIV/AIDS<sup>1</sup>, deaths among people reported with HIV/AIDS, and newly diagnosed HIV infections by year<sup>2</sup>: 1999–2006, Worcester, Massachusetts**

<b>Year</b>	<b>HIV/AIDS Prevalence</b>	<b>Deaths among those with HIV/AIDS</b>	<b>Diagnosis of HIV Infection</b>
1999	713	25	61
2000	742	21	50
2001	762	21	41
2002	809	25	72
2003	843	27	61
2004	867	26	50
2005	880	24	37
2006	905	19	44

<sup>1</sup> Number of People living with HIV/AIDS on 12/31 of each year

<sup>2</sup> Reflects year of diagnosis for HIV infection among all individuals reported with HIV infection, with or without an AIDS diagnosis  
Data source: MDPH HIV/AIDS Surveillance Program, Data as of 1/1/08

**Table 4. People diagnosed with HIV infection from 2004–2006<sup>1</sup> and people living with HIV/AIDS on December 31, 2007 by gender, place of birth, race/ethnicity, exposure mode, age at HIV infection diagnosis and current age: Worcester, Massachusetts**

HIV Infection Diagnoses			PLWH/A	
Gender:	N	%	N	%
Male	75	57%	541	59%
Female	56	43%	379	41%
Place of Birth:	N	%	N	%
US	54	41%	522	57%
Puerto Rico/US Dependency <sup>2</sup>	26	20%	220	24%
Non-US	51	39%	178	19%
Race/Ethnicity:	N	%	N	%
White (non-Hispanic)	32	24%	320	35%
Black (non-Hispanic)	54	41%	236	26%
Hispanic	43	33%	351	38%
Other/Undetermined <sup>3</sup>	2	2%	13	1%
Exposure Mode:	N	%	N	%
Male-to-male sex (MSM)	25	19%	152	17%
Injection Drug Use (IDU)	29	22%	346	38%
MSM/IDU	1	1%	29	3%
Heterosexual Sex	24	18%	176	19%
Other	1	1%	24	3%
Total Undetermined	51	39%	193	21%
• Presumed Heterosexual Sex <sup>4</sup>	42	32%	163	18%
• Undetermined <sup>5</sup>	9	7%	30	3%
Age:	N	%	N	%
	At Diagnosis		On December 31, 2007	
Under 13	1	1%	2	<1%
13 to 19	5	4%	16	2%
20 to 24	10	8%	12	1%
25 to 29	13	10%	34	4%
30 to 34	20	15%	64	7%
35 to 39	22	17%	118	13%
40 to 44	23	18%	166	18%
45 to 49	20	15%	219	24%
50 to 54	8	6%	158	17%
55 to 59	4	3%	67	7%
60+	5	4%	64	7%
<b>Total</b>	<b>131</b>	<b>100%</b>	<b>920</b>	<b>100%</b>

<sup>1</sup> Reflects year of HIV infection diagnosis among all individuals reported with HIV infection, with or without an AIDS

<sup>2</sup> Ninety-five percent of all people diagnosed with HIV infection in MA who were born in a US dependency were born in Puerto Rico, 1% were born in the US Virgin Islands, <1% were born in American Samoa, and 4% were born in an unknown dependency

<sup>3</sup> Other/Undetermined includes Asian/Pacific Islander, American Indian/Alaska Native and people of unspecified race/ethnicity

<sup>4</sup> Heterosexual sex with partners with unknown risk and HIV status

<sup>5</sup> Includes those still being followed up for risk information, those who have died with no determined risk, and those lost to follow-up  
Data Source: MDPH HIV/AIDS Surveillance Program (percentages may not add up to 100% due to rounding), Data as of 1/1/08

**Table 5. People living with HIV/AIDS on December 31, 2007 by gender and race/ethnicity: Worcester, Massachusetts**

Race/Ethnicity:	Male		Female	
	N	%	N	%
White Non-Hispanic	215	40%	105	28%
Black Non-Hispanic	118	22%	118	31%
Hispanic	198	37%	153	40%
Other/Undetermined <sup>1</sup>	10	2%	3	1%
<b>Total</b>	<b>541</b>	<b>100%</b>	<b>379</b>	<b>100%</b>

<sup>1</sup> Other/Undetermined includes Asian/Pacific Islander, American Indian/Alaska Native and people of unspecified race/ethnicity

Data Source: MDPH HIV/AIDS Surveillance Program (percentages may not add up to 100% due to rounding), Data as of 1/1/08

**Table 6. People living with HIV/AIDS on December 31, 2007 by gender and exposure mode: Worcester, Massachusetts**

Exposure Mode:	Male		Female	
	N	%	N	%
Male-to-male sex (MSM)	152	28%	N/A	N/A
Injection drug use (IDU)	219	40%	127	34%
MSM/IDU	29	5%	N/A	N/A
Heterosexual sex	43	8%	133	35%
Other	12	2%	12	3%
Total Undetermined	86	16%	107	28%
• Presumed heterosexual sex <sup>1</sup>	70	13%	93	25%
• Undetermined <sup>2</sup>	16	3%	14	4%
<b>Total</b>	<b>541</b>	<b>100%</b>	<b>379</b>	<b>100%</b>

<sup>1</sup> Heterosexual sex with partners with unknown risk and HIV status

<sup>2</sup> Includes those still being followed up for risk information, those who have died with no determined risk, and those lost to follow-up; N/A=Not Applicable

Data Source: MDPH HIV/AIDS Surveillance Program (percentages may not add up to 100% due to rounding), Data as of 1/1/08

**Table 7. People diagnosed with HIV infection by gender and year of diagnosis: Worcester, Massachusetts, before 1999, 1999–2006<sup>1</sup>**

	Male		Female		Total
	N	%	N	%	
< 1999	705	66%	371	34%	1,076
1999	37	61%	24	39%	61
2000	33	66%	17	34%	50
2001	29	71%	12	29%	41
2002	44	61%	28	39%	72
2003	22	36%	39	64%	61
2004	25	50%	25	50%	50
2005	24	65%	13	35%	37
2006 <sup>2</sup>	26	59%	18	41%	44

<sup>1</sup> Reflects year of HIV infection diagnosis among all individuals reported with HIV infection, with or without an AIDS diagnosis

<sup>2</sup> 2006 data are preliminary

Data Source: MDPH HIV/AIDS Surveillance Program (percentages may not add up to 100% due to rounding), Data as of 1/1/08

**Table 8. People diagnosed with HIV infection by race/ethnicity and year of diagnosis: Worcester, Massachusetts, before 1999, 1999–2006<sup>1</sup>**

	White NH		Black NH		Hispanic		Other/ Undetermined <sup>2</sup>		Total
	N	%	N	%	N	%	N	%	
< 1999	473	44%	166	15%	430	40%	7	1%	1,076
1999	20	33%	12	20%	27	44%	2	3%	61
2000	14	28%	15	30%	21	42%	0	0%	50
2001	8	20%	11	27%	19	46%	3	7%	41
2002	21	29%	27	38%	22	31%	2	3%	72
2003	16	26%	26	43%	18	30%	1	2%	61
2004	15	30%	19	38%	16	32%	0	0%	50
2005	11	30%	12	32%	14	38%	0	0%	37
2006 <sup>3</sup>	6	14%	23	52%	13	30%	2	5%	44

<sup>1</sup> Reflects year of HIV infection diagnosis among all individuals reported with HIV infection, with or without an AIDS diagnosis

<sup>2</sup> Other/Undetermined includes Asian/Pacific Islander, American Indian/Alaska Native and people of unspecified race/ethnicity

<sup>3</sup> 2006 data are preliminary

NH = Non-Hispanic

Data Source: MDPH HIV/AIDS Surveillance Program (percentages may not add up to 100% due to rounding), Data as of 1/1/08

**Table 9. People diagnosed with HIV infection by place of birth and year of diagnosis: Worcester, Massachusetts, before 1999, 1999–2006<sup>1</sup>**

	US		Puerto Rico/ US Dependency <sup>2</sup>		Non-US		Total
	N	%	N	%	N	%	
< 1999	719	67%	299	28%	58	5%	1,076
1999	33	54%	15	25%	13	21%	61
2000	23	46%	17	34%	10	20%	50
2001	14	34%	9	22%	18	44%	41
2002	38	53%	11	15%	23	32%	72
2003	23	38%	13	21%	25	41%	61
2004	20	40%	9	18%	21	42%	50
2005	18	49%	10	27%	9	24%	37
2006 <sup>3</sup>	16	36%	7	16%	21	48%	44

<sup>1</sup> Reflects year of HIV infection diagnosis among all individuals reported with HIV infection, with or without an AIDS diagnosis

<sup>2</sup> Ninety-five percent of all people diagnosed with HIV infection in MA who were born in a US dependency were born in Puerto Rico, 1% were born in the US Virgin Islands, <1% were born in American Samoa, and 4% were born in an unknown dependency

<sup>3</sup> 2006 data are preliminary

Data Source: MDPH HIV/AIDS Surveillance Program (percentages may not add up to 100% due to rounding), Data as of 1/1/08

**Table 10. People diagnosed with HIV infection by exposure mode and year of diagnosis: Worcester, Massachusetts, before 1999, 1999–2006<sup>1</sup>**

	MSM		IDU		MSM/ IDU		HTSX		Other		Pres. HTSX <sup>2</sup>		Undeter- mined <sup>3</sup>		Total
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N
<1999	176	16%	584	54%	51	5%	156	14%	39	4%	57	5%	13	1%	1,076
1999	7	11%	20	33%	4	7%	17	28%	0	0%	12	20%	1	2%	61
2000	10	20%	14	28%	0	0%	11	22%	2	4%	13	26%	0	0%	50
2001	4	10%	13	32%	0	0%	11	27%	0	0%	11	27%	2	5%	41
2002	10	14%	18	25%	2	3%	10	14%	0	0%	24	33%	8	11%	72
2003	8	13%	12	20%	1	2%	13	21%	0	0%	20	33%	7	11%	61
2004	8	16%	12	24%	1	2%	10	20%	1	2%	13	26%	5	10%	50
2005	8	22%	12	32%	0	0%	5	14%	0	0%	10	27%	2	5%	37
2006 <sup>4</sup>	9	20%	5	11%	0	0%	9	20%	0	0%	19	43%	2	5%	44

<sup>1</sup> Reflects year of HIV infection diagnosis among all individuals reported with HIV infection, with or without an AIDS diagnosis

<sup>2</sup> Heterosexual sex with partners with unknown risk and HIV status

<sup>3</sup> Includes those still being followed up for risk information, those who have died with no determined risk and those lost to follow-up

<sup>4</sup> 2006 data are preliminary

MSM = Male-to-Male Sex; IDU = Injection Drug Use; MSM/IDU = Male-to-Male Sex and Injection Drug Use; HTSX = Heterosexual Sex; Pres. HTSX = Presumed Heterosexual Sex

Data Source: MDPH HIV/AIDS Surveillance Program (percentages may not add up to 100% due to rounding), Data as of 1/1/08

**Table 11. People diagnosed with HIV infection and AIDS within two months and all people diagnosed with HIV infection by year of diagnosis: Worcester, Massachusetts, 1999–2006<sup>1</sup>**

	HIV and AIDS diagnosed within 2 months	All HIV infection diagnoses	% diagnosed with HIV and AIDS within 2 months
Year:	N	N	%
1999	13	61	21%
2000	11	50	22%
2001	13	41	32%
2002	20	72	28%
2003	15	61	25%
2004	14	50	28%
2005	8	37	22%
2006	13	44	30%

<sup>1</sup> Reflects year of HIV diagnosis among all individuals reported with HIV infection, with or without an AIDS  
Data Source: MDPH HIV/AIDS Surveillance Program, Data as of 1/1/08

**Table 12. People diagnosed with HIV infection and AIDS within two months and all people diagnosed with HIV infection by gender, race/ethnicity, and place of birth: Worcester, Massachusetts, 2004–2006<sup>1</sup>**

	HIV and AIDS diagnosed within 2 months	All HIV infection diagnoses	% diagnosed with HIV and AIDS within 2 months
<b>Gender:</b>	<b>N</b>	<b>N</b>	<b>%</b>
Male	23	75	31%
Female	12	56	21%
<b>Race/Ethnicity:</b>	<b>N</b>	<b>N</b>	<b>%</b>
White (non-Hispanic)	9	32	28%
Black (non-Hispanic)	16	54	30%
Hispanic	9	43	21%
Other/Undetermined <sup>2</sup>	1	2	50%
<b>Place of Birth:</b>	<b>N</b>	<b>N</b>	<b>%</b>
US	12	54	22%
Puerto Rico/US Dependencies <sup>3</sup>	7	26	27%
Non-US	16	51	31%
<b>Total</b>	<b>35</b>	<b>131</b>	<b>27%</b>

<sup>1</sup> Reflects year of HIV diagnosis among all individuals reported with HIV infection, with or without an AIDS

<sup>2</sup> Other/Undetermined includes Asian/Pacific Islander, American Indian/Alaska Native and people of unspecified race/ethnicity

<sup>3</sup> Ninety-five percent of all people diagnosed with HIV infection in MA who were born in a US dependency were born in Puerto Rico, 1% were born in the US Virgin Islands, <1% were born in American Samoa, and 4% were born in an unknown dependency

Data Source: MDPH HIV/AIDS Surveillance Program, Data as of 1/1/08